

What is claimed is:

1. A digital camera for a microscope which comprises an objective lens system with a variable observing magnification and an illumination optical system provided at a predetermined position with respect to said objective lens system for illuminating an object to be observed, characterized in that:

said camera comprises a correction unit for correcting a photographed image of said object to be observed in accordance with image correction data corresponding to each predetermined observing magnification of said objective lens system.

2. A digital camera for a microscope according to claim 1, wherein said image correction data is photographing image data of a standard background image when said object to be observed is not present and contains said photographing image data according to the microscopic observation method of said microscope.

3. A digital camera for a microscope according to claim 1 or 2, further comprising an objective lens recognition unit for inputting the information for specifying a predetermined observing magnification of said objective lens.

4. A digital camera for a microscope according to

claim 2, wherein said image correction data contains at least one of illuminance distribution non-uniformity data, color unevenness data, and geometric aberration data of the image field.

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5. A microscopic system comprising:

a microscopic unit having an objective lens system with a variable observing magnification, and an illumination optical system provided at a predetermined position with respect to said objective lens system for illuminating an object to be observed; and

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a digital camera for a microscope as set forth in claim 1.